

⁷Li in the Form of Lithium Hydroxide Monohydrate for the Nuclear Industry



Enriched Lithium Hydroxide Monohydrate for use as an alkalizing agent in pressurized water reactors.

Our Lithium-7 is specifically designed to meet the quality requirements of the nuclear power industry. Two grades are available – one of them world exclusively produced for NUKEM Isotopes GmbH:

- **Grade „X“** is a material of x-tra high purity and enrichment, far exceeding the requirements of all NPP specifications.
- **Grade „B“** is a free flowing material for application in Lithium-7-resin manufacturing.

${}^7\text{LiOH} \cdot \text{H}_2\text{O}$ - Grade "B"

Specification

Physical and chemical properties:

- Material ${}^7\text{Li}$ in the form of $\text{LiOH} \cdot \text{H}_2\text{O}$.
- Enrichment ${}^7\text{Li} \geq 99.93\text{at}\%$
- Total ${}^7\text{LiOH}$ content 48wt% - 58wt%
- Water content 42wt% - 52wt%.

Impurities in $\mu\text{g/g}$

Cl	≤ 500
F	≤ 500
Fe	≤ 50
Hg	≤ 0.5
Na	≤ 50
Pb	≤ 10
PO_4	≤ 500
SiO_2	≤ 500
SO_4	≤ 500
Zn	≤ 5

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${}^7\text{LiOH} \cdot \text{H}_2\text{O}$ - Grade "X"

Specification

Physical and chemical properties:

- Material ${}^7\text{Li}$ in the form of $\text{LiOH} \cdot \text{H}_2\text{O}$.
- Enrichment ${}^7\text{Li} \geq 99.95\text{at}\%$
- Total ${}^7\text{LiOH}$ content 48wt% - 58wt%
- Water content 42wt% - 52wt%.

Impurities in $\mu\text{g/g}$

Al	≤ 5
Ca	≤ 10
Cl	≤ 20
Cu	≤ 1
F	≤ 200
Fe	≤ 10
Hg	≤ 0.05
K	≤ 10
Mg	≤ 5
Na	≤ 10
Pb	≤ 0.2
PO_4	≤ 200
SiO_2	≤ 250
SO_4	≤ 100
Zn	≤ 1
Insolubles	≤ 1000

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